

BLOCK DIAGRAM PM DG/8

OMNIBUS IS A REGISTERED
TRADEMARK OF D.E.C.

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SIZE	CODE IDENT NO.	DWG NO.
A	52648	MA 700655
SCALE	REV	SHEET
		3

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LAST DESIGNATION USED	
RESISTOR	R24
CAPACITOR	C45
INTEGRATED CIRCUIT	U55
RESISTOR MODULE	RU4
CRYSTAL	Y1

REF DES	GATES USED PER TOTAL	PART NO.
J7	4/6	74H04
U35	5/6	7404
U36	3/6	7404
U42	3/4	1360200-380
U44	1/2	75452
U51	1/2	74H76

SIDE 2		SIDE 1	
+5V	A		
	B		
GND	C		
	D		
	E		
	F	GND	
	H		
	J		
	K		
	L		
	M		
GND	N	GND	
	P		
	R		
	S		
GND	T	GND	
	U		
	V		

SOLDER SIDE

CONNECTOR A

CONNECTOR B

SIDE 2		SIDE 1	
+5V	A		
	B		
GND	C	GND	
	D		
	E		
GND	F	GND	
	H		
	J		
	K		
	L		
	M		
GND	N	GND	
	P		
	R		
	S		
GND	T	GND	
	U		
	V		

SOLDER SIDE

CONNECTOR C

CONNECTOR D

SIDE 2		SIDE 1	
DISC SEEK FAIL L	A	CRC DATA H	
DISC ADD 64 L	B	RD CLK I H	
DISC ADD 16 L	C	IDLE (I) H	
DISC DRIVE 0 L	D	RDY S/R/W H	
DISC ADD 128 L	E	FILE RDY H	
STROBE (I) H	F	CLR SECTOR AD L	
DISC ADD 4 L	H	CLR ALL L	
DISC ADD 32 L	J	B DATA 11 H	
DISC ADD 2 L	K	B DATA 10 H	
DISC RDY S/R/W L	L	B DATA 9 H	
LD DISC ADDR H	M	B DATA 8 H	
CRC 16 (I) H	N	DISC DRIVE 3 L	
SECTOR ADDR (I) H	P	DISC DRIVE 2 L	
B DATA 7 H	R	DISC DRIVE 1 L	
HALF BLOCK H	S	DISC ADD 1 L	
FUNCTION 02 H	T	DISC ADD 8 L	
FUNCTION 00 H	U	DATA ENABLE (I) H	
FUNCTION 01 H	V	ENAB DATA L	

SOLDER SIDE

CONNECTOR E

CONNECTOR F

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
-		REL TO PROD PER ERO 500708	1-15-76
A		INCORPORATED EO #1173	5-13-76
B		INCORPORATED EO 1214	6-1-76
C		INCORPORATED EO 1269	9-2-76

1		21	DISC ADD 1 L
2	GND	22	GND
3	DISC CAPACITY EX L	23	DISC DRIVE 0 L
4	GND	24	GND
5	DISC SEEK FAIL L	25	DISC ADD 32 L
6	GND	26	GND
7	DISC ACKNOWLEDGE L	27	DISC RDY S/R/W L
8	GND	28	GND
9	DISC SEC 2 L	29	DISC ADD 128 L
10	GND	30	GND
11	DISC DRIVE 3 L	31	DISC WRT CLK DAT L
12	GND	32	GND
13	DISC RESTORE L	33	DISC ADD 16 L
14	GND	34	GND
15	DISC DRIVE 2 L	35	DISC ADD 64 L
16	GND	36	GND
17	DISC ADD 4 L	37	DISC ADD 2 L
18	GND	38	GND
19	DISC DRIVE 1 L	39	DISC ADD 8 L
20	GND	40	GND

CONNECTOR J7

1	GND	21	GND
2	GND	22	DISC INDEX MK L
3	GND	23	GND
4	DISC DATA IN L	24	DISC WRT-ERASE GATE L
5	GND	25	GND
6	DISC RD CLK L	26	DISC SEC 1 L
7	GND	27	GND
8	DISC WRT PROT L	28	DISC SEC 4 L
9	GND	29	GND
10	DISC READ L	30	
11	GND	31	GND
12		32	DISC SEC 8 L
13	GND	33	GND
14	DISC WRT STATUS L	34	
15	GND	35	GND
16	DISC SECTOR MK L	36	DISC STROBE L
17	GND	37	GND
18	DISC FILE RDY L	38	POWER OK H
19	GND	39	GND
20	DISC HEAD SEL L	40	

CONNECTOR J1

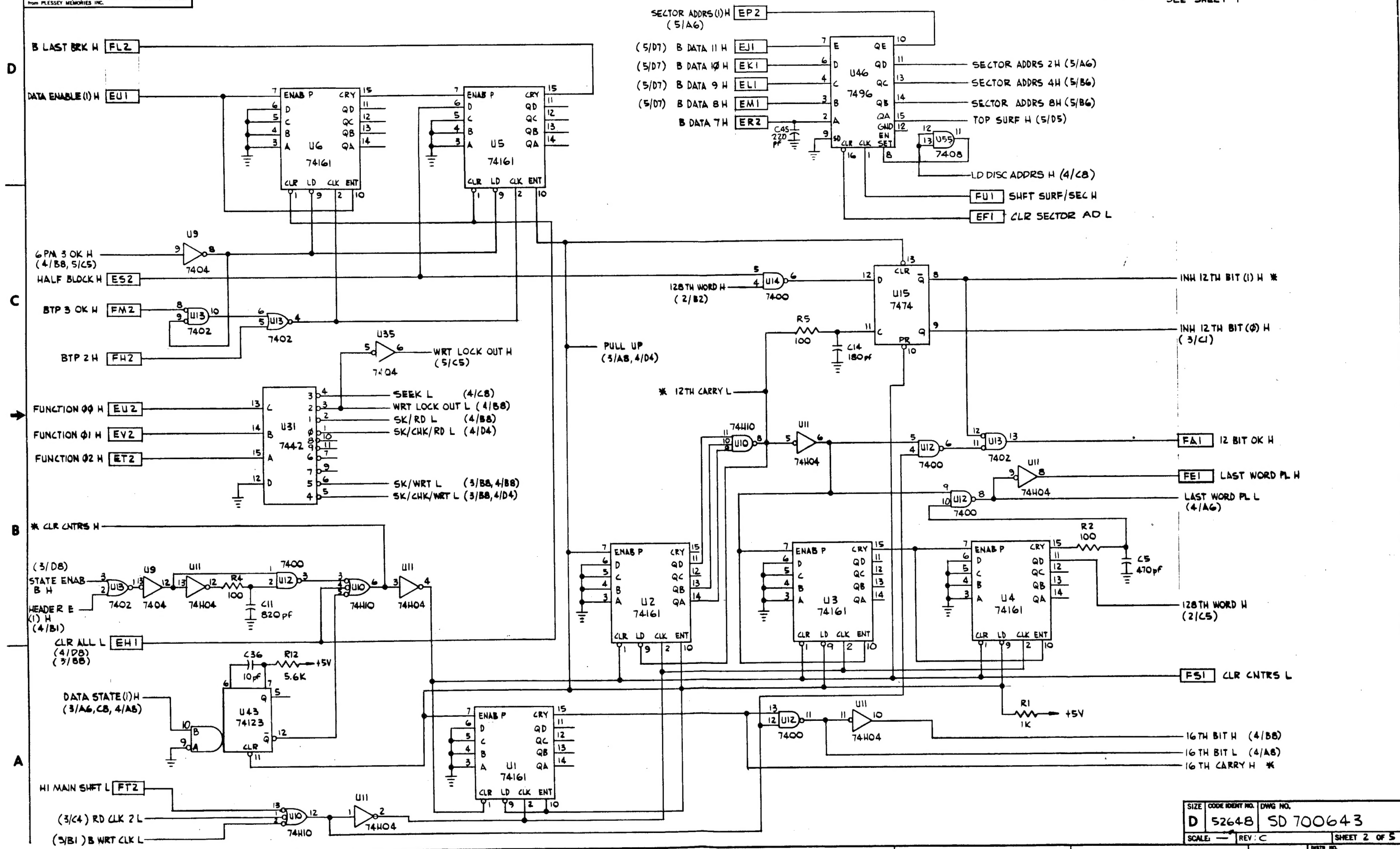
7. COMPONENTS ARE LAB SET. TO BE SET PER TEST SPEC TS700643.
6. ALL CAPACITORS ARE IN MICROFARADS.
5. * INDICATES SIGNAL NOT USED ON THIS PARTICULAR BOARD.
4. DESIGNATIONS SHOWN IN PARENTHESIS (2/A1) INDICATES WHERE SIGNAL ORIGINATES OR TERMINATES.
3. SIGNALS SHOWN IN RECTANGLE [AA] ARE I/O CONNECTIONS BOARD SIDE PIN DESIGNATION CONNECTOR DESIGNATION.
2. FOR ASSEMBLY SEE DWG. 700643.
1. ALL RESISTORS ARE IN OHMS, ±5%, 1/4 W.
- NOTES: UNLESS OTHERWISE SPECIFIED.

PRODUCTION RELEASE

PART/ASSY NO. & QTY PER ASSY		DO NOT SCALE DRAWING		CONTRACT NO.			
PART/ASSY REV LTR		SCREW THREADS PER HANDBOOK H-88 COUNTERBORE AND SPOTFACE FILLET RADI TO BE .010 MAXIMUM REMOVE ALL BURRS AND BREAK SHARP EDGES EQUIVALENT TO .010 ROUGHNESS OF MACHINED SURFACES 125 PER USAS B46.1 STANDARD HOLE TOLERANCE PER AND 1987 TOLERANCES DIM. XX ± .00 .001 ± .001 .005 ± .005 .010 ± .010 .015 ± .015 .020 ± .020 .030 ± .030 .040 ± .040 .050 ± .050 .060 ± .060 .070 ± .070 .080 ± .080 .090 ± .090 .100 ± .100 .125 ± .125 .150 ± .150 .175 ± .175 .200 ± .200 .250 ± .250 .300 ± .300 .350 ± .350 .400 ± .400 .450 ± .450 .500 ± .500 .600 ± .600 .700 ± .700 .800 ± .800 .900 ± .900 1.000 ± 1.000 1.250 ± 1.250 1.500 ± 1.500 1.750 ± 1.750 2.000 ± 2.000 2.500 ± 2.500 3.000 ± 3.000 3.500 ± 3.500 4.000 ± 4.000 4.500 ± 4.500 5.000 ± 5.000 5.500 ± 5.500 6.000 ± 6.000 6.500 ± 6.500 7.000 ± 7.000 7.500 ± 7.500 8.000 ± 8.000 8.500 ± 8.500 9.000 ± 9.000 9.500 ± 9.500 10.000 ± 10.000		DRAWN KRAVANIS 1-15-76 CHECKED [Signature] 2-17-76 PROJ. ENGR [Signature] 2-17-76 PROD. DESIGN [Signature] 2-17-76		DWG TITLE SCHEMATIC DIAGRAM CONTROL PM-DC/8	
700643-100 PM-DC/8		NEXT ASSY USED ON APPLICATION		SIZE CODE IDENT NO. DWG NO. D 52648 SD700643			
OTHER APPROVALS		SCALE: - REV: C		SHEET 1 OF 9			

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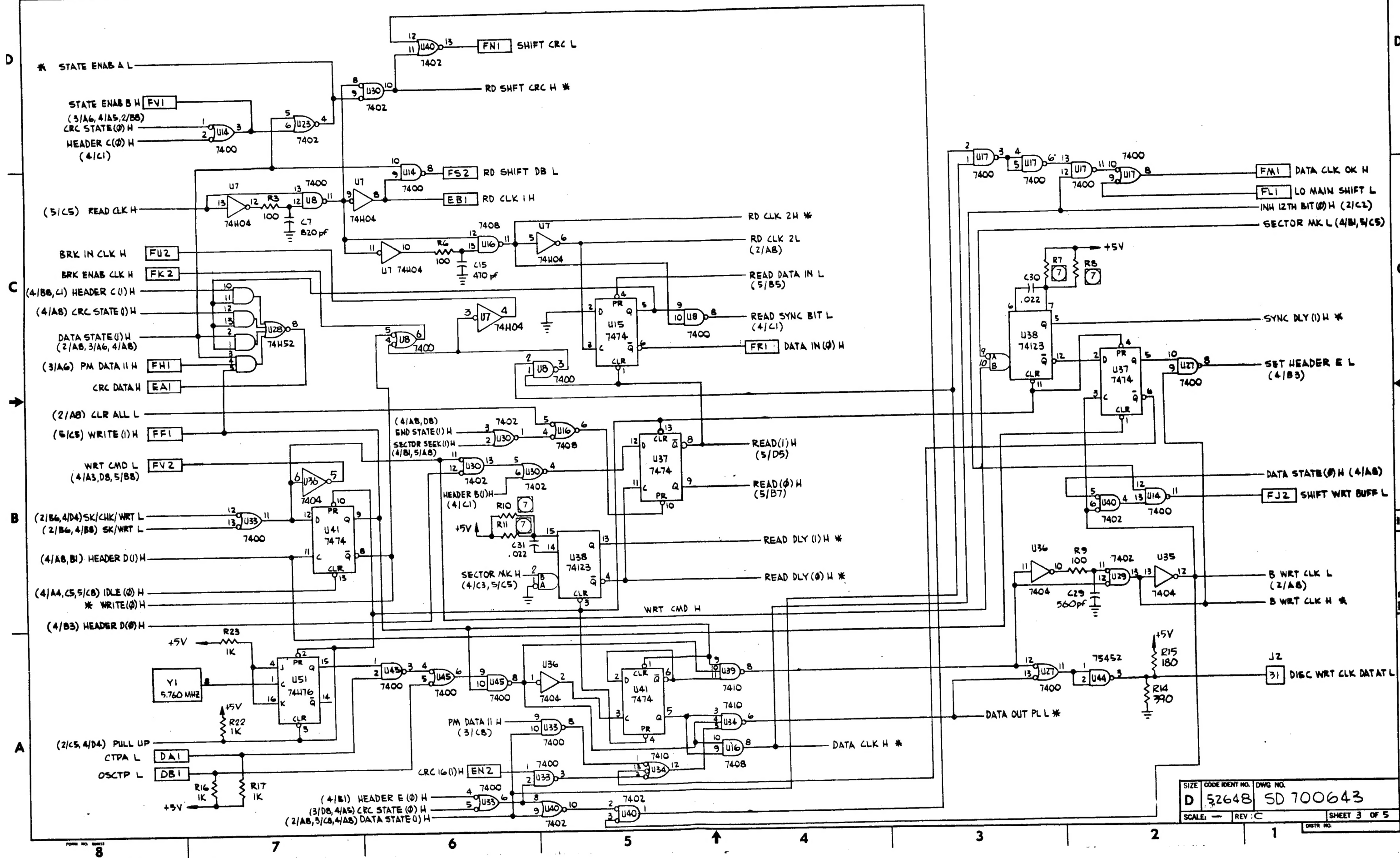
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
SEE SHEET 1			
APPROVED			



SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD 700643
SCALE		REV: C
		SHEET 2 OF 5

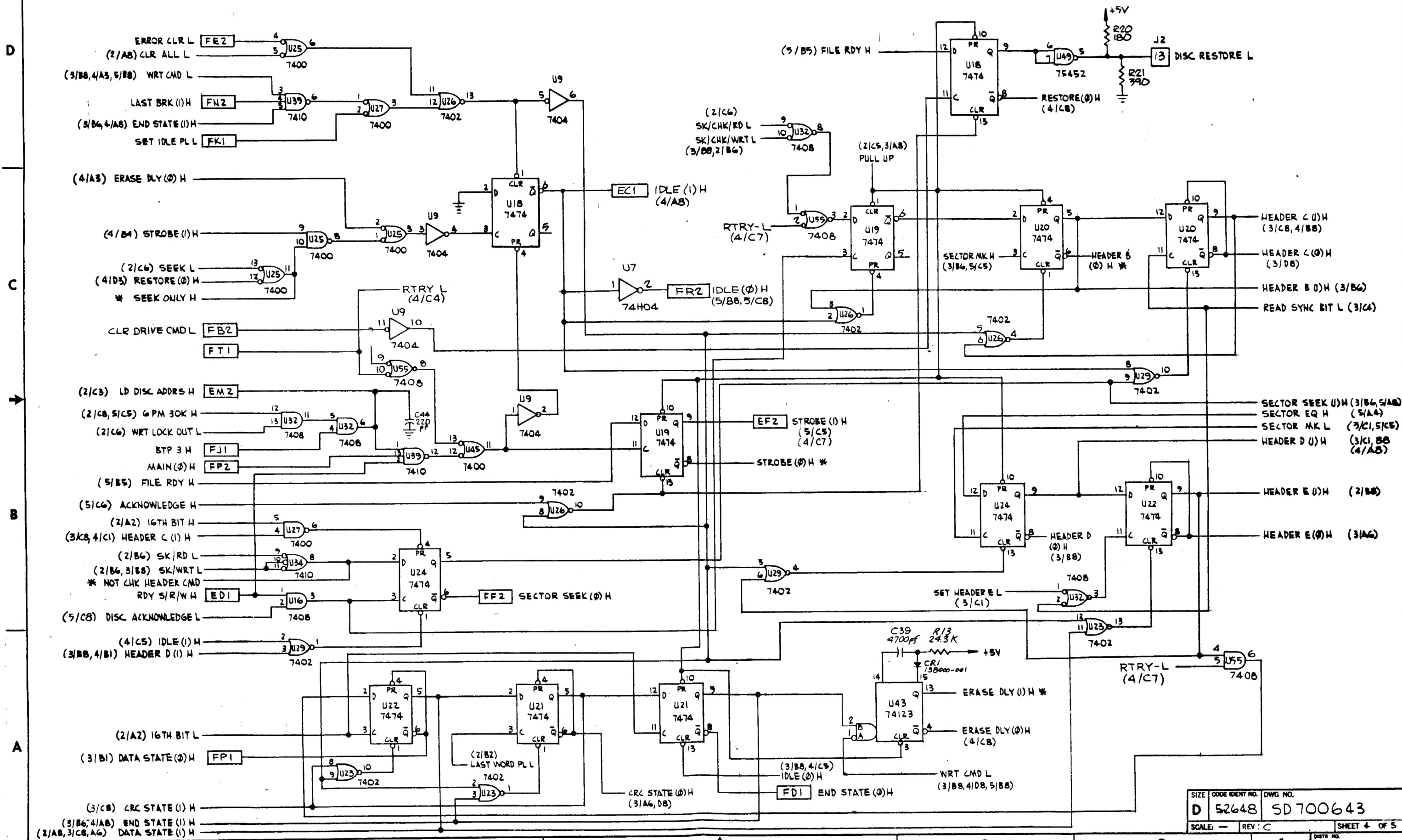
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REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
SEE SHEET 1			
APPROVED			



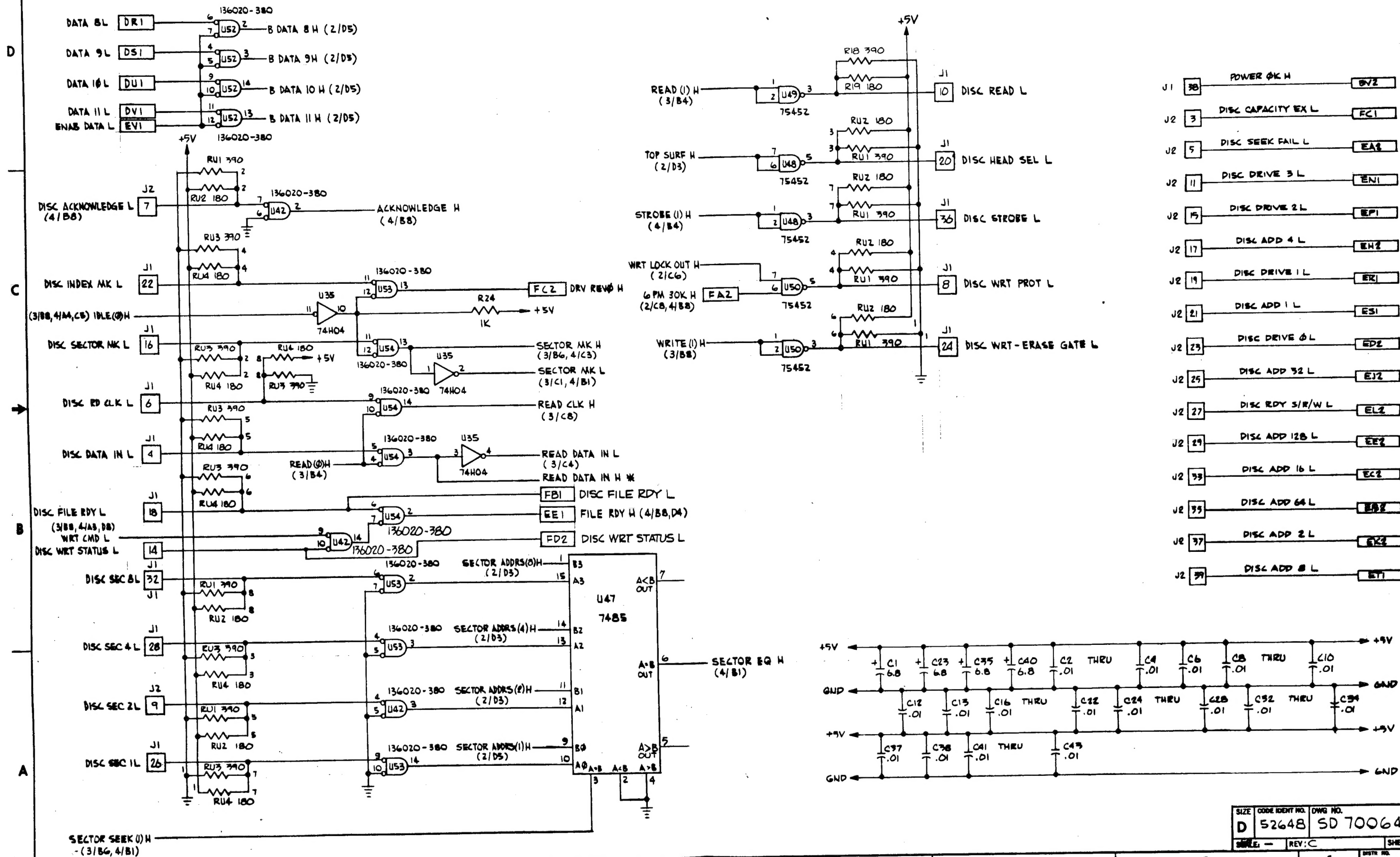
SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD 700643
SHEET 3 OF 5		

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		



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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
SEE SHEET 1				



SIZE CODE IDENT NO. DWG NO.
D 52648 SD 700643
SHEET 5 OF 5

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	-	EEL TO PROD PER ERO 500686	12-9-76	PS H
	A	INCORP EO 1166	2-27-76	PS
	B	INCORPORATED EO 1215	6-1-76	PS
	C	INCORPORATED EO 1270	9-8-76	PS

REF DES	GATES USED PER TOTAL	PART NO.
U3	1/2	380
U29	1/2	7408
U37	3/4	7432
U42	3/4	7402
U43	5/6	74104
U47	3/4	7402
U48	3/4	7402
U53	3/4	7408
U55	1/2	7400
U62	3/4	7437

SIDE 2		SIDE 1	
	A		
	B		
	C		
	D		
	E		
	F		
	H		
	J		
	K	MD0L	
	L	MD1L	
	M	MD2L	
	N		
	P	MD3L	
	R	DATA 0 L	
	S	DATA 1 L	
	T		
	U	DATA 2 L	
	V	DATA 3 L	
	A		
	B		
	C		
	D		
	E		
	F		
	H		
	J		
	K	MD4L	
	L	MD5L	
	M	MD6L	
	N		
	P	MD7L	
	R	DATA 4 L	
	S	DATA 5 L	
	T		
	U	DATA 6 L	
POWER OK H	V	DATA 7 L	

SOLDER SIDE

COMPONENT SIDE

CONNECTOR A

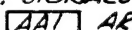
CONNECTOR B

SOLDER SIDE	SIDE 2	SIDE 1	COMPONENT SIDE	CONNECTOR C
	A			
	B			
	C			
TP1 H	D	I/O PAUSE L		
TP2 H	E	CØL		
	F			
TP3 H	H	CIL		
	J			
	K			
	L	INTERNAL I/O L		
T83 L	M			
	N			
	P			
	R	INITIALIZE H		
	S			
	T			
	U			
	V			
	A			
	B			
	C			
	D			
	E			
	F			
	H			
	J			
	K	MD8 L		
	L	MD9 L		
	M	MD10 L		
	N			
	P	MD11 L		
	R	DATA 8 L		
	S	DATA 9 L		
	T			
	U	DATA 10 L		
	V	DATA 11 L		

SIDE 2		SIDE 1	
MAIN (1) H	A	BRK RQ H	
B BRK RQ H	B	AC 7 (Φ) H	
BTP2 H	C	DATA CLK OK H	
WRT BUFF DATA L	D	CLR ALL H	
DB CONT 4(1) H	E	DISC FILE ROY L	
	F	PM DATA II H	
	H	WRT BRK L	
	J	MAK (Φ) H	
	K	BTP3 OK H	
READ BRK L	L	B DATA STATE (1) H	
WRITE (1) H	M	12TH BIT OK H	
6PM7 OK H	N	DATA ENABLE (1) H	
BRK DIR (Φ) H	P	LD MAIN SHIFT L	
SHIFT WRT BUFF L	R	6PM6 H	
6PM3 OK L	S	6PM3 OK H	
B DATA Φ1 H	T	MAIN PL H	
SEEK FAIL H	U	ROY S/R/W L	
LD MAIN DATA H	V	DB CONT 1 (Φ) H	
B DATA 1 Φ H	A	DEVICE PM H	
LD DISC ADDRSH	B	ENAB INT H	
CLR DRIVE CMD L	C	6PM7 H	
DISC WRT STATUS L	D	ERROR CLR L	
WRT CMD L	E	MAIN (Φ) H	
NOT EQ (Φ) H	F	SECTOR SEEK (Φ) H	
DRIVE STATUS BAD H	H	B DATA II L	
END STATE (Φ) H	J	SET IDLE PL L	
DRIVE REV (Φ) H	K	DISC CAPACITY EXL	
IDLE (1) H	L	RDY S/R/W H	
DATA STATE (Φ) H	M	HI RD CLK H	
LAST WORD PL H	N	IDLE (Φ) H	
B DATA 1 Φ L	P	LD CMD REG H	
HI DATA IN H	R	B DATA II H	
6PM4 L	S	SEEK DONE H	
	T	BTP3 H	
CLR ALL L	U	BTP3 L	
	V	RTRY-L	

PRODUCTION RELEASE

3. SIGNALS SHOWN IN RECTANGLE



AAT ARE I/O CONNECTIONS

BOARD SIDE

PIN DESIGNIATION

CONNECTOR DESIGNIATION

2. FOR ASSEMBLY SEE DRAWING 700645.

1. ALL RESISTORS ARE $\pm 5\%$, $1/4 W$.

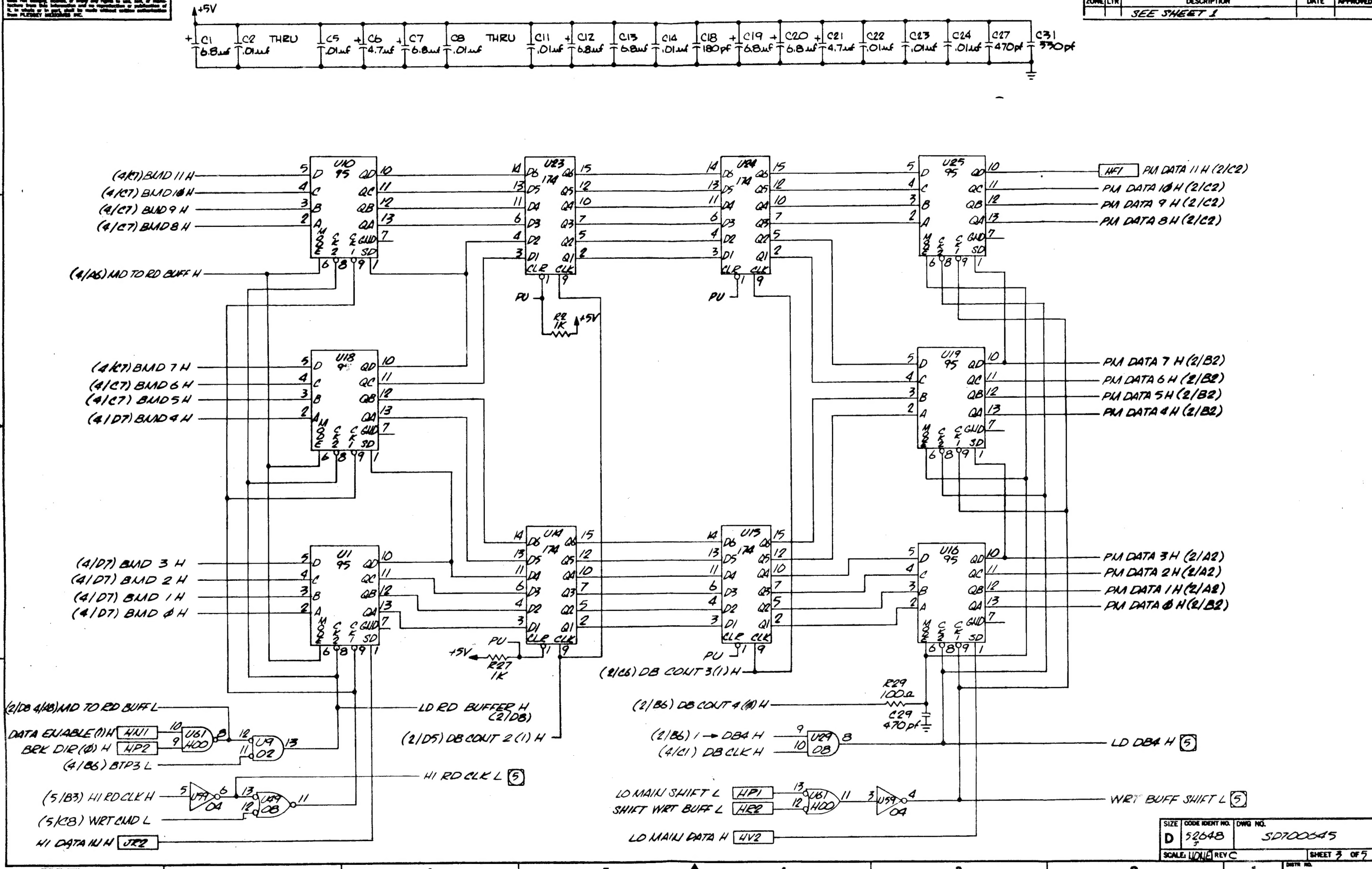
NOTES: UNLESS OTHERWISE SPECIFIED.

[illegible]

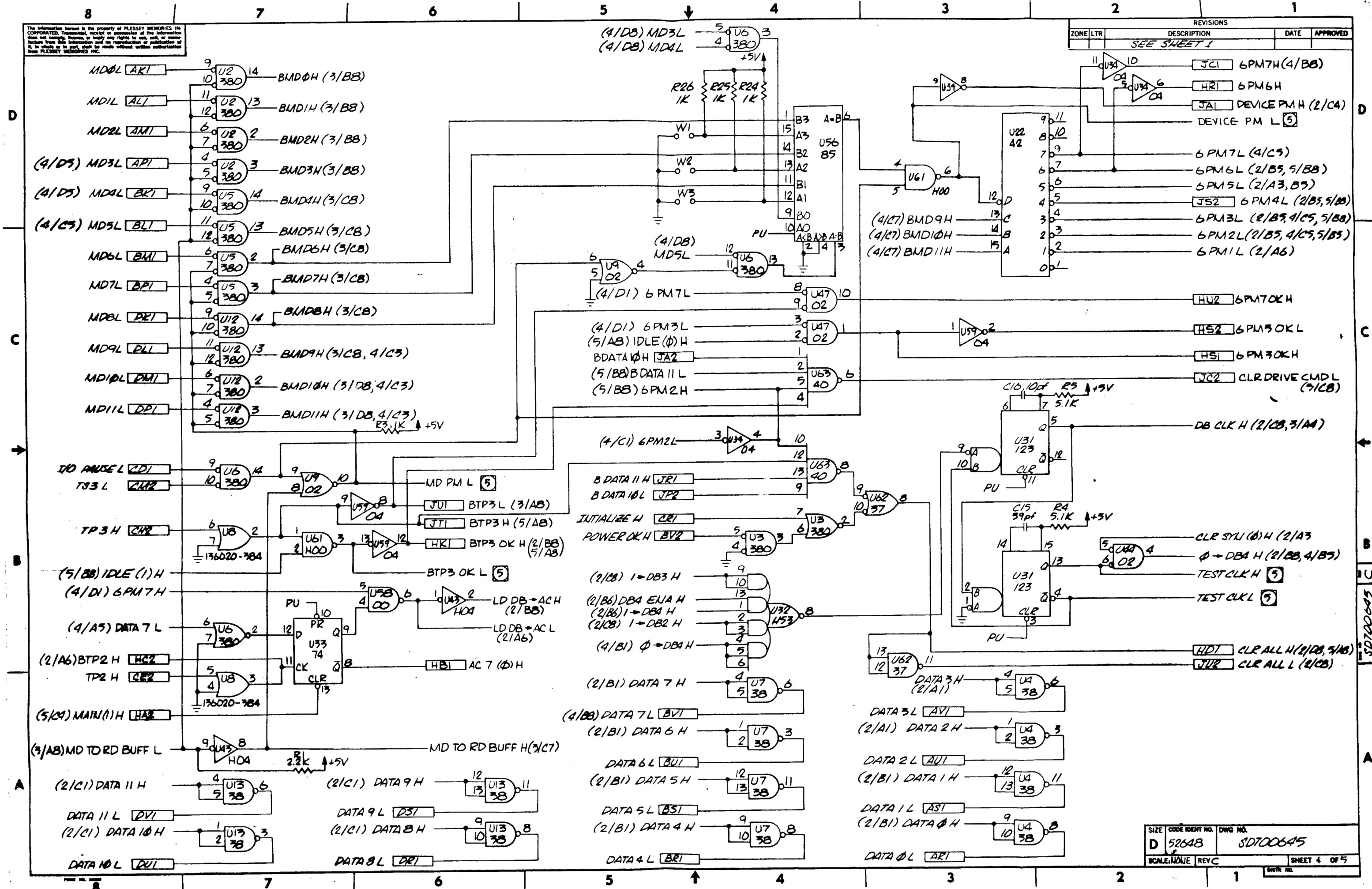
SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD700645
SCALE: 1" = 1' REV C		SHEET 2 OF 5

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REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
		SEE SHEET 1	

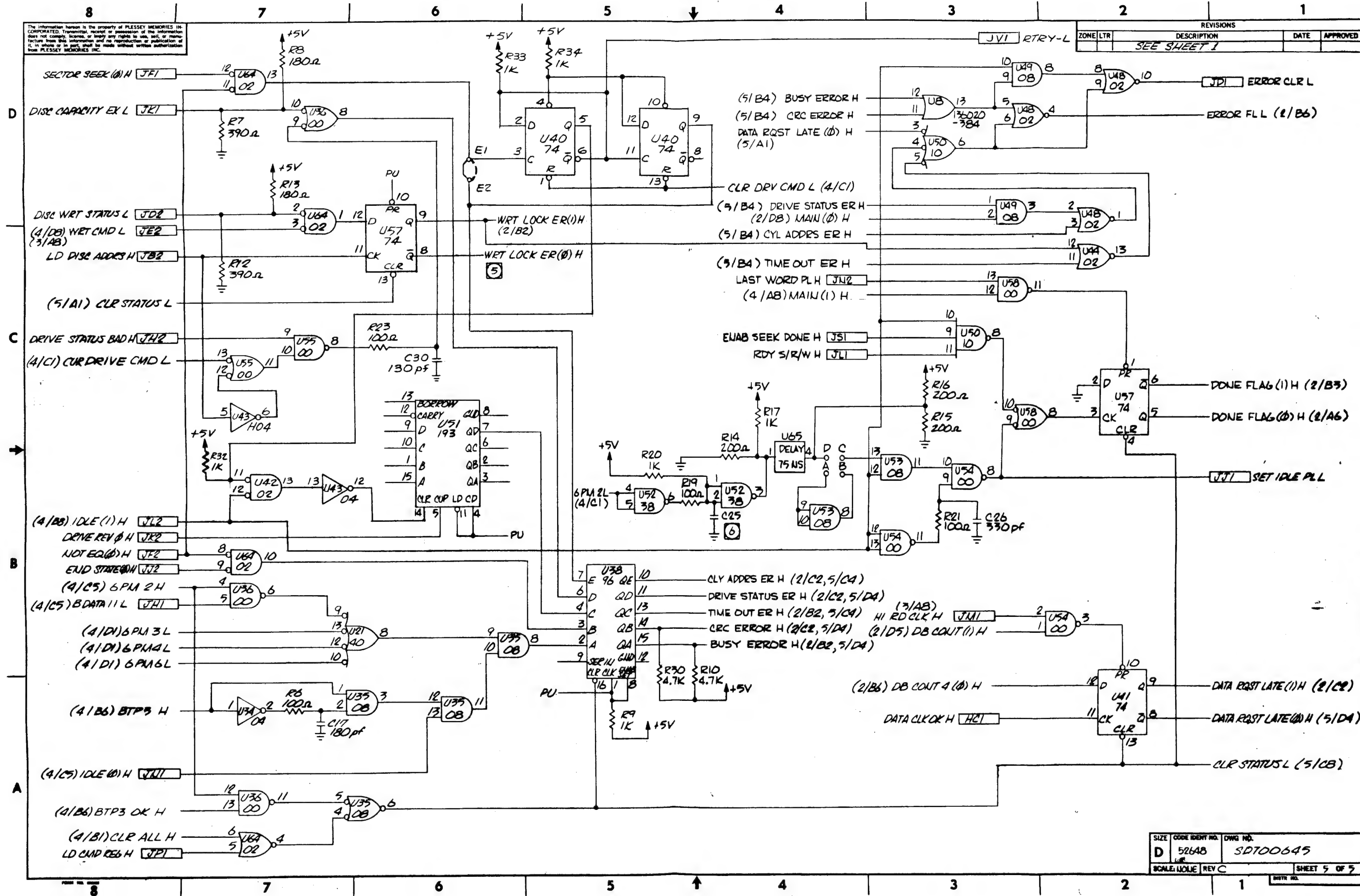


SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD700645
SCALE: 1/16" = 1" REV C		
SHEET 3 OF 5		DATE NO.



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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		



SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD700645
SCALE	REV	SHEET
1:1	C	5 OF 5

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REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
-		REL TO PROD PER EDO 500708	2-17-76
A		INCORP E.O. 1174	8-16-76

LAST DESIGNATION USED	
RESISTOR	R7
CAPACITOR	C93
INTEGRATED CIRCUIT	U49
RESISTOR LAD	EXM

REF DES	GATES USED PER TOTAL	PART NO.
U1	516	7404
U2	314	7400
U11	112	7440
U34	314	7438
U39	214	7400-304
U41	314	7400
U17	112	74S139

SIDE 2		SIDE 1	
+5V	A		
	B		
GND	C		
ENAB 0 L	D	MA0 L	
ENAB 1 L	E	MA1 L	
GND	F		
ENAB 2 L	H	MA2 L	
	J	MA3 L	
MD DIR L	K		
	L		
	M		
GND	N		
	P		
	R	DATA 0 L	
	S	DATA 1 L	
GND	T		
	U	DATA 2 L	
	V	DATA 3 L	

SIDE 2		SIDE 1	
+5V	A		
	B		
GND	C	GND	
TP1 H	D		
	E		
GND	F	GND	
	H		
TP4 H	J		
	K		
TS2 L	L		
	M		
GND	N		
TS4 L	P		
	R		
	S		
GND	T	GND	
	U	CPMA DB L	
	V	MS, RE DB L	

SIDE 2		SIDE 1	
DISC SEEK FAIL L	A	CRC DATA H	
DISC ADD 64 L	B	RD CLK T H	
DISC ADD 16 L	C	IDLE (1) H	
DISC DRIVE 0 L	D	RDY S/R W H	
DISC ADD 128 L	E	FILE RDY H	
STROBE (1) H	F	CLR SECTOR AD L	
DISC ADD 4 L	H	CLR ALL L	
DISC ADD 32 L	J	B DATA 11 H	
DISC ADD 2 L	K	B DATA 10 H	
DISC RDY S/R W L	L	B DATA 9 H	
LD DISC ADD 8 H	M	B DATA 8 H	
CRC 16 (1) H	N	DISC DRIVE 3 L	
SECTOR ADD 8 (1) H	P	DISC DRIVE 2 L	
B DATA 7 H	R	DISC DRIVE 1 L	
HALF BLOCK H	S	DISC ADD 1 L	
FULL 02 H	T	DISC ADD 8 L	
FULL 00 H	U	DATA ENABLE (1) H	
FULL 01 H	V	ENAB DATA L	

SIDE 2		SIDE 1	
B DATA 10 H	A	DEVICE PAU H	
LD DISC ADD 8 H	B	ENAB INT H	
CLR DRIVE CMD L	C	6 PAU 7 H	
B DATA 10 L	D	ERROR CLR L	
WRT CMD L	E	MAIN (0) H	
NOT EQ (0) H	F	SECTOR SEEK (1) H	
DRIVE STATUS BAD H	H	B DATA 11 L	
END STATE (0) H	J	SET IDLE PL L	
DRIVE REV 0 H	K	DISC CAPACITY EX L	
IDLE (1) H	L	RDY S/R W SLO H	
DATA STATE (0) H	M	HI RD CLK H	
LAST WORD PL H	N	IDLE (0) H	
B DATA 10 L	P	LD CMD RESH H	
HI DATA IN H	R	B DATA 11 H	
6 PAU 4 L	S	ENAB SEEK DONE H	
	T	BTP3 H	
CLR ALL L	U	BTP3 L	
	V		

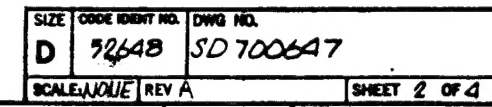
MAIN (1) H	A	BRK RQ H	
B BRK RQ H	B	ACT (0) H	
BTP2-H	C	BTP3 OK H	
WT BUFF-DATA L	D	CLR ALL H	
DB CONT 4 (1) H	E	DISC FILE RDY L	
	F	PAU DATA 11 H	
	H	WRT BRK L	
	J	MAK 0 H	
	K	BTP3 OK H	
READ BRK L	L	B DATA STATE (1) H	
WRITE (1) H	M	18TH BIT OK H	
6 PAU 7 OK H	N	DATA ENABLE (1) H	
BRK DIR (0) H	P	LD MAIN SHIFT L	
SHIFT WRT BUFF L	R	6 PAU 6 H	
6 PAU 3 OK L	S	6 PAU 3 OK H	
B DATA 1 H	T	MAIN PL H	
SEEK FAIL H	U	RDY S/R W L	
LD MAIN DATA H	V	DB CONT 1 (0) H	

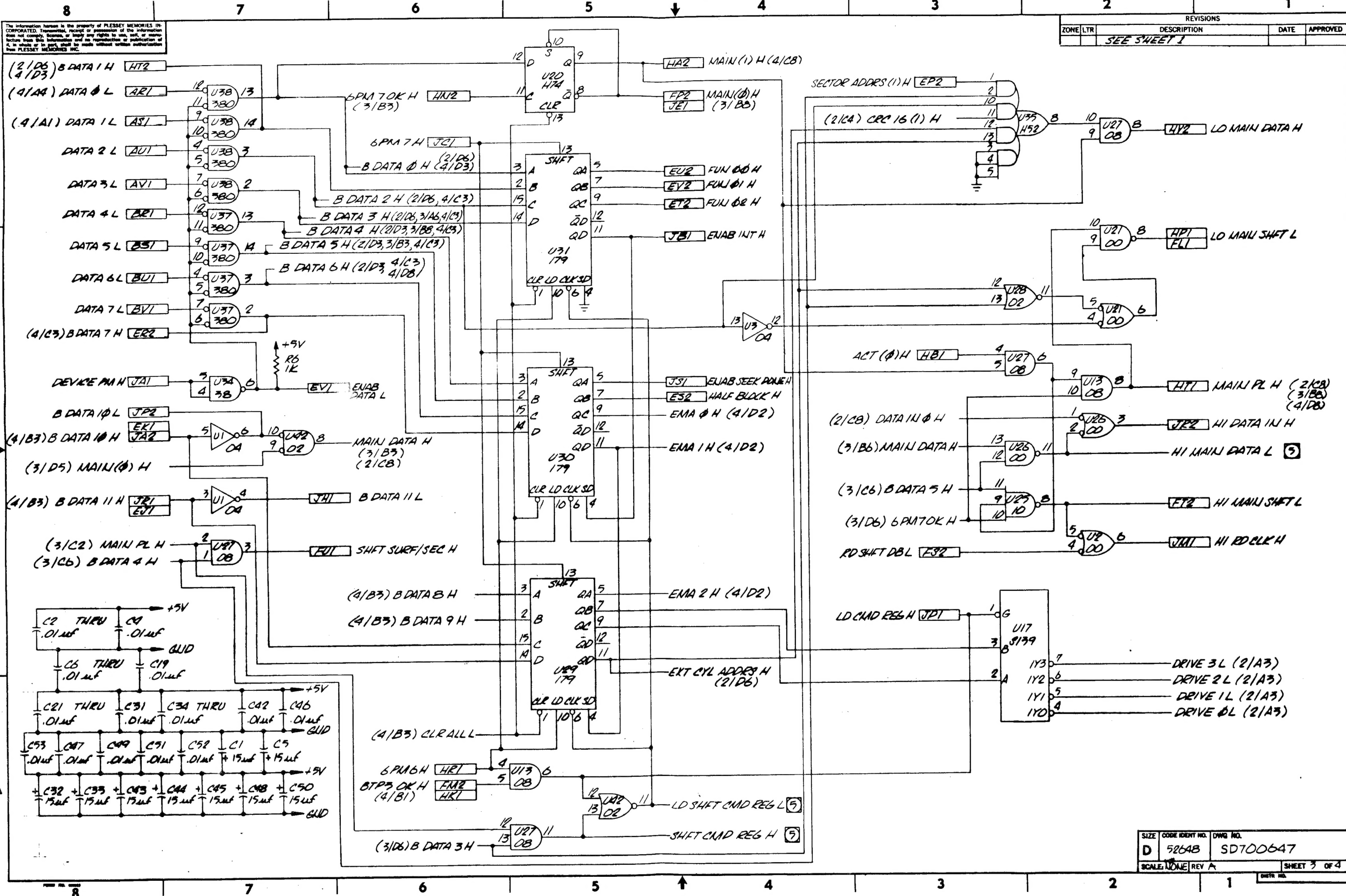
5. INDICATES SIGNAL NOT USED.
4. DESIGNATIONS SHOWN IN PARENTHESIS (2/1A) INDICATES WHERE SIGNAL ORIGINATES OR TERMINATES
3. SIGNALS SHOWN IN RECTANGLE ARE I/O CONNECTIONS BOARD SIDE
2. FOR ASSEMBLY SEE DWG. 700647.
1. ALL RESISTORS ARE $\pm 5\%$, 1/4W.
- NOTES: UNLESS OTHERWISE SPECIFIED.

PRODUCTION RELEASE

PART/ASSY NO. & QTY PER ASSY		DO NOT SCALE DRAWING		CONTRACT NO.	
PART/ASSY REV LTR		REWORK THROUGHS PER HANDBOOK H-48		DRAWN <i>GOLES</i> 1-15-76	
		COUNTERSINK AND SPOTFACE FILLET RADIUS TO BE 30 DEGREES		CHECKED <i>DWIGHT</i> 2-17-76	
		REMOVE ALL BURRS AND BREAK SHARP EDGES		ENGR	
		ROUNDNESS OF MACHINING SURFACES TO BE .0005 IN. MAX		PROJ. ENGR <i>WILL</i> 2-17-76	
		STANDARD HOLE TOLERANCES PER AND SEE		PROD. DESIGN <i>WILL</i> 2-17-76	
		TOLERANCES .015 IN. & .03 IN. .0005 IN. & .001 IN. & .002 IN. & .005 IN. & .010 IN. & .015 IN. & .030 IN. & .050 IN. & .100 IN. & .150 IN. & .200 IN. & .250 IN. & .300 IN. & .350 IN. & .400 IN. & .450 IN. & .500 IN. & .550 IN. & .600 IN. & .650 IN. & .700 IN. & .750 IN. & .800 IN. & .850 IN. & .900 IN. & .950 IN. & 1.000 IN. & 1.050 IN. & 1.100 IN. & 1.150 IN. & 1.200 IN. & 1.250 IN. & 1.300 IN. & 1.350 IN. & 1.400 IN. & 1.450 IN. & 1.500 IN. & 1.550 IN. & 1.600 IN. & 1.650 IN. & 1.700 IN. & 1.750 IN. & 1.800 IN. & 1.850 IN. & 1.900 IN. & 1.950 IN. & 2.000 IN. & 2.050 IN. & 2.100 IN. & 2.150 IN. & 2.200 IN. & 2.250 IN. & 2.300 IN. & 2.350 IN. & 2.400 IN. & 2.450 IN. & 2.500 IN. & 2.550 IN. & 2.600 IN. & 2.650 IN. & 2.700 IN. & 2.750 IN. & 2.800 IN. & 2.850 IN. & 2.900 IN. & 2.950 IN. & 3.000 IN. & 3.050 IN. & 3.100 IN. & 3.150 IN. & 3.200 IN. & 3.250 IN. & 3.300 IN. & 3.350 IN. & 3.400 IN. & 3.450 IN. & 3.500 IN. & 3.550 IN. & 3.600 IN. & 3.650 IN. & 3.700 IN. & 3.750 IN. & 3.800 IN. 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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		





REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
		SEE SHEET 1	

SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD700647
SCALE: NONE		REV A
		SHEET 3 OF 4

